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19. (Amended) The method according to Claim 18, wherein a thickness of the intermediate material is more than 10 nanometers and less than 1 micrometer.

20. (Amended) The method according to Claim 18, wherein the intermediate material is liquid at a contact interaction of the intermediate material with the substrate.

21. (Amended) The method according to Claim 18, wherein the intermediate material includes more than one chemical element.

22. (Amended) The method according to Claim 19, wherein the intermediate material includes more than one chemical element.

23. (Amended) The method according to Claim 21, wherein at least one of the chemical elements acts as a luminescent activator or co-activator.

24. (Amended) The method according to Claim 18, further comprising forming at least one of a predetermined structure and a predetermined chemical composition on the substrate.

25. (Amended) The method according to Claim 18, further comprising forming a predetermined regular structure on the substrate.

26. (Amended) The method according to Claim 18, further comprising forming a predetermined structure on the substrate, wherein the structure has a crystallographically-symmetric character.

27. (Amended) The method according to Claim 23, wherein the activator or co-activator is introduced into the luminescent material by means of ion implantation.

28. (Amended) The method according to Claim 26, wherein the luminescent material is coated by a thin layer of a material transparent for electrons.

29. (Amended) The method according to Claim 28, wherein the transparent material includes a diamond or diamond-like material.